(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 16 December 2004 (16.12.2004)

(10) International Publication Number WO 2004/107960 A2

- (51) International Patent Classification7:
- **A61B**
- (21) International Application Number:

PCT/US2004/017770

- (22) International Filing Date:
 - 4 June 2004 (04.06.2004)
- (25) Filing Language:

English

English

(26) Publication Language:

(30) Priority Data:

10/455,878

6 June 2003 (06.06.2003)

- (71) Applicant (for all designated States except US): FIS-CHER IMAGING CORPORATION [US/US]; 12300 North Grant Street, Denver, CO 80241 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BESSON, Guy, M. [FR/US]; 1672 Emerald Street, Broomfield, CO 80020 (US). NIELDS, Morgan, W. [US/US]; Sunrise Drive #4, Englewood, CO 80110 (US).
- (74) Agent: MARSH, Thomas, R.; Marsh Fischmann & Breyfogle LLP, Suite 411, 3151 South Vaughn Way, Aurora, CO 80014 (US).

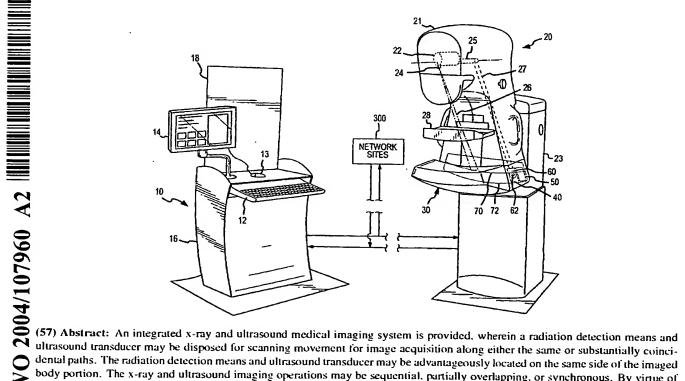
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO. CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA. NI, NO, NZ, OM, PG, PH. PL. PT. RO, RU, SC. SD. SE, SG, SK, SL. SY, TJ, TM. TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

without international search report and to be republished upon receipt of that report

[Continued on next page]

(54) Title: INTEGRATED X-RAY AND ULTRASOUND MEDICAL IMAGING SYSTEM



dental paths. The radiation detection means and ultrasound transducer may be advantageously located on the same side of the imaged body portion. The x-ray and ultrasound imaging operations may be sequential, partially overlapping, or synchronous. By virtue of the noted arrangement, increased accuracy and medical efficiencies can be realized.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.